

## ABSTRACT

Dialyzers having an improved header design providing an improved flow of fluid, e.g., blood, into the interior of the dialyzer and specifically to the fiber bundle are provided. The dialyzer inlet header comprising a body that defines, at least in part, an end of the dialyzer. The inlet header includes an inlet channel providing fluid communication from an exterior of the dialyzer to an interior of the dialyzer, the inlet channel defining a fluid flow path that is axial to a fiber bundle located in the interior of the dialyzer. The dialyzer also includes at least one member for modifying the fluid flow path of a fluid as it exits the inlet channel. Methods of providing dialysis are also provided.